

Multiplexing - T1 Transport - 1.544 Mbps - Trunk Side (5013)

This provides the ESP with a digital 1.544 Mbps facility at their premises that is then available to provide up to 24 Circuit Switched Trunk Basic Serving Arrangements. When utilizing analog network terminations, the telephone company will provide multiplex and/or channel bank equipment to multiplex 24 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz into a DS1 signal. When utilizing digital network terminations, the telephone company will provide a DS1 signal.

Generic Name of ONA Service	Product Name	BSE or CNS
Multiplexing- T1 Transport - 1.544 Mbps - Trunk Side	NX- Circuit Switched Trunk With T1 Transport	BSE

Reference: GR-510 LSSGR: System Interfaces, Section 10 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000510 Issue 2 & Revisions 1 & 2 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Trunk serving arrangement.

Number Forwarding (8055)

Number Forwarding is an Advanced Intelligent Network (AIN) service that allows a customer to have a telephone number without having an exchange access line. Calls placed to the telephone number can be forwarded to any other telephone number within the local calling area.

Generic Name of ONA Service	Product Name	BSE or CNS
Number Forwarding	Qwest – Number Forwarding	CNS

FEATURE OPERATION:

Number Forwarding is an AIN service that allows a customer to have a telephone number without having an exchange access line. Calls placed to the telephone number can be forwarded to any other telephone number within the local calling area. It is specifically designed to work with switches on the SS7 network that supports AIN 0.1.

The service will not be capable of working with non-AIN switches or switches not on the SS7 network. The service does require a Specific Digit String 10-digit Trigger (AKA 3-6-10 or PODP) on the subscriber's telephone number.

Number Forwarding is available on switches equipped with AIN. Lucent 5ESS, Lucent 1A ESS, and Nortel DMS 100/200 are all switches capable of offering this service.

References: not applicable.

Operator Services Automatic Call Distribution (8062)

Operator Services Automatic Call Distribution Service is a wholesale offering that will enable carriers and other wholesale service customers of the telephone company to have the ability to provide their end users with timely and useful information that goes beyond traditional Directory Assistance ("DA") service. This service will enable carriers and other wholesale service customers to respond to requests for other information such as weather reports, ski conditions, movie/theater information, driving directions, horoscope, etc.

Generic Name of ONA Service	Product Name	BSE or CNS
Operator Services Automatic Call Distribution	Qwest – Enhanced Directory Assistance	BSE

FEATURE OPERATION:

This service utilizes certain service functions of the telephone company-maintained Telephone Operator Position System ("TOPS") switches that enable routing, queuing and management of calls to operator terminal equipment. Please refer to the telephone company tariffs to determine availability on an interstate basis, and to determine its availability on an intrastate basis in specific states.

Priority Installation Service (4013)

This service provides the ESP, on an optional basis, priority installation.

Generic Name of ONA Service	Product Name	BSE or CNS
Priority Installation Service	BS - Expedited Order	BSE or CNS

FEATURE OPERATION:

An ESP may request that the installation service order be expedited. The ESP will incur the Expedited Order Charge to obtain the expedited service date.

References: not applicable.

Privacy + (8047)

With Privacy +, callers that are in an “unavailable/unidentified” area and callers that choose not to unblock their data, will be asked to record their name. Caller ID with Privacy + will ring the subscriber’s phone with a distinctive ring (two short rings). If the call is answered, the customer will hear the recorded name and have the option of pressing “1” to accept the call or “2” to reject the call.

Generic Name of ONA Service	Product Name	BSE or CNS
Privacy +	Qwest – Privacy +	CNS

References: not applicable.

Redirecting Name Delivery (8046)

Redirecting Name Delivery, available to ISDN PRI subscribers, allows for the name and number of the original caller and the last redirecting number to be displayed after a call has been redirected via a call forwarding feature. The customer must have CPE that will display the redirecting name and number.

Generic Name of ONA Service	Product Name	BSE or CNS
Redirecting Name Delivery	Qwest – Redirecting Name Delivery	BSE

References: not applicable.

Redirecting Number Delivery (8048)

Redirecting Number Delivery (RND) is a terminating user feature available to ISDN BRI subscribers. It allows the delivery of the redirecting number to the called party to indicate that call forwarding has occurred. If the received call is a forwarded call, the original calling party's number and the last forwarded directory number are delivered to the called party.

Generic Name of ONA Service	Product Name	BSE or CNS
Redirecting Number Delivery	Qwest – Redirecting Number Delivery	CNS

References: not applicable.

Remote Call Forwarding (3004,4019,5014,8025)

Remote Call Forwarding (RCF) is a service that utilizes a Directory Number (DN) to automatically forward all incoming calls to another DN. The forwarded to number can be in the same central office switch or in another central office switch.

The remote call forwarding directory number is not directly associated with an access connection arrangement, but rather is a software translation programmed within the central office switch. All calls dialed to that directory number will forward to another number automatically. The subscriber to this capability does not have a station set for termination of calls made to their remote call forwarding number.

Generic Name of ONA Service	Product Name	BSE or CNS
Remote Call Forwarding	BA - Remote Call Forwarding	CNS
	BS - Remote Call Forwarding	CNS
	NX - Remote Call Forwarding	CNS
	Qwest - Market Expansion Line	BSE

Reference: GR-581 LSSGR: Remote Call Forwarding FSD 01-02-1402 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000581 Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Remote Call Forwarding On DID Lines (8057)

This service is an Advanced Intelligent Network (AIN) capability that allows Remote Call Forwarding on Direct Inward Dialed (DID) lines. It also allows the calls to be forwarded on a scheduled basis.

Generic Name of ONA Service	Product Name	BSE or CNS
Remote Call Forwarding On DID Lines	Qwest – Call Planner	CNS

FEATURE OPERATION:

This AIN service allows remote call forwarding on DID lines. It also allows the calls to be forwarded on a scheduled basis. This service will be available with the following DID services:

- Primary Rate ISDN (Voice Only)
- Advanced DSS 2-Way and In-Only
- TDD In-Only

AIN Remote Call Forwarding on DID Lines is an AIN service and is available in switches within the established AIN Local Calling Area. It is available in the following switch types:

- Lucent 5ESS
- Lucent 1A ESS
- Nortel DMS-100

Reference: not available.

Security Screen (8056)

Security Screen is an Advanced Intelligent Network (AIN) feature that provides subscribers with the ability to screen Private/Anonymous and Out Of Area/Unknown calls that are placed to their number.

Generic Name of ONA Service	Product Name	BSE or CNS
Security Screen	Qwest – Security Screen	CNS

FEATURE OPERATION:

Security Screen prompts unidentified callers to press 1 to unblock their calling party information, or to press 2 to input the number they are calling from. Security Screen advises callers to hang up if they are solicitors. If a caller chooses not to unblock their calling information or enter their calling number, Security Screen will advise the caller that their call cannot be completed, and will terminate the call or transfer the call to the subscriber's voice mail. If a caller chooses to unblock their line or enter their calling party information, the service alerts the subscriber of the incoming call with a distinctive ring, and the caller's number and name (if available) are displayed on the subscriber's Caller ID unit. Security Screen can be turned on and off by the subscriber. A customer who subscribes to Security Screen must also subscribe to Caller Identification (Name and Number).

Security Screen is available in all Lucent 1A ESS, Lucent 5ESS, and Nortel DMS-100 switches that are AIN capable. It is not compatible with DID, ISDN, Digital Services, and Custom Ringing in a DMS 100.

Reference: not available.

Selective Call Waiting (8061)

Selective Call Waiting is a premium version of Call Waiting that allows the subscriber to establish and modify a list of telephone numbers that trigger the Call Waiting tone when the subscriber's line is in use. Calls from telephone numbers not on the list, or calls from unidentified callers will either be routed to voice mail (if subscriber has voice mail) or they will be routed to an announcement that will tell the caller that the line is busy and to try their call later.

Generic Name of ONA Service	Product Name	BSE or CNS
Selective Call Waiting	Qwest – Selective Call Waiting	CNS

Reference: not available.

Service Code Denial On Line Or Hunt Group (6005)

This screening option disallows completion of terminating calls to local directory assistance (411, 555-1212), to service codes 611 and 911, and to local operator assistance (0-, 00-). Blocked calls are routed to a reorder tone or a recorded announcement.

Service Code Denial On Line Or Hunt Group is useful to 900 services and the ESP industry for fraud control.

This feature is provided in all electronic end offices and, where available, in electro-mechanical end offices.

Generic Name of ONA Service	Product Name	BSE or CNS
Service Code Denial On Line Or Hunt Group	PB - Service Code Denial On Line Or Hunt Group	BSE

Reference: GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, July 1994 (replaces TR-NWT-000334, Issue 3).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Surrogate Client Number (4002)

This capability provides a method for customers of an ESP to have a "presence" in the ESP's serving office as a "virtual telephone number." This capability will allow an ESP to identify the "calling number" of customers served by central offices where demand is insufficient to justify a Foreign Central Office (FCO) arrangement for calling number identification services such as SMDI that are currently limited by technology to intraoffice applications only.

This capability is presently only feasible from 1A ESS switches. This capability cannot be used with Call Forwarding Don't Answer to a DID number. This capability is limited to intraoffice operation.

Generic Name of ONA Service	Product Name	BSE or CNS
Surrogate Client Number	BS - Surrogate Client Number	BSE

Reference: GR-581 LSSGR: Remote Call Forwarding FSD 01-02-1402 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000581 Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Switched 56 Kilobit Service (3019,4021,5036)

Switched 56 Kilobit Service enables subscribers to transmit and receive data at the rate of 56 kilobits per second. Customers requiring InterLATA/Interstate transport can subscribe to an Interexchange Carrier that has Switched 56 Kilobit Service connectivity. The telephone company may offer Switched 56 Kilobit Access Service using Feature Group D protocol arrangements.

Generic Name of ONA Service	Product Name	BSE or CNS
Switched 56 Kilobit Service	BA - Switched 56 Kilobit Service	BSA
	BS - AccuPulse®	BSA
	NX - Switchway	BSA

FEATURE OPERATION:

Customers establish calls by dialing 7 or 10 digits as they would for a POTS call. Calls can only terminate to another Switched 56 line and cannot be used for normal voice communications.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	1A ESS	5ESS
Earliest Generic Release	1AE8	5E6

2. This service is offered from specially equipped 1A ESS and 5ESS switches using facilities that are designed to accommodate 56 kilobits per second, full duplex, synchronous transmission. Remote access arrangements are available for customer locations not within the local wire center area of the specially equipped switches.
3. Subscriber loops from the local central office to customers' premises must be 4-wire, non-loaded facilities that can be designed to meet the specifications of Digital Data Service.
4. Interoffice facilities are specially equipped and are dedicated to the transport of Switched 56 Kilobit Service traffic. Access facilities are also specially equipped and dedicated to Switched 56 Kilobit Service.

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5. Customers' CPE must be Accunet Compatible.

6. References:

- GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, July 1994 (replaces TR-NWT-000334, Issue 3).
- MDP-326-726 Digital Data System Channel Interface Specification, Issue 1, September 1983 [no longer listed].

This service is associated with the Circuit Switched Trunk basic serving arrangement.

Third Number Billing Inhibited (4012,7067)

This capability provides Enhanced Services Providers (ESPs) with the ability to prevent third number calls from being billed to their switched access billing accounts, (e.g., DID numbers). This capability is provided by the operating procedures of a BOC providing operator services capabilities.

When a call is made to a BOC operator services system, and the caller requests the charges be billed to a third number, the operator makes a call to the third number for verification that the charges will be accepted. If no answer is received when the third number is called for verification of billing acceptance, the bill to third request is rejected.

In some areas, when a call is made to a BOC operator services system, and the caller requests the charges be billed to a third number, the operator queries the Line Information Database (LIDB) to determine the billed party's preference concerning bill to third number requests. If the information in the LIDB indicates to always reject bill to third party attempts, then the bill to third request is rejected.

Generic Name of ONA Service	Product Name	BSE or CNS
Third Number Billing Inhibited	BS - Billed Number Screening *	BSE or CNS
	SWB - Billed Number Screening	CNS

Reference: FR-271 (replaces FR-NWT-000271) Operator Service Systems Generic Requirements (OSSGR), Issue 005, April 2008. See FSD 85-01-0300 for information about Third Number Billing, see GR-1177 OSSGR: Special Billing Features (FSD 85 Series), A Module of OSSGR, FR-271 & FD-LECKIT-CD-01, Issue 3 – August 2005.

* This capability is available throughout the BellSouth region upon customer request.

Three Way Calling (3020,4020,5019,8028)

Three Way Calling (TWC) allows a customer to add a third party to an existing conversation without operator assistance. The party initiating TWC may hold one party with privacy exclusion while dialing and talking with another party and can later include the held party in TWC.

Generic Name of ONA Service	Product Name	BSE or CNS
Three Way Calling	BA - Three Way Calling	BSE
	BS - Three Way Calling	CNS
	NX - 3 Way Calling	BSE
	Qwest - Three Way Calling	BSE

FEATURE OPERATION:

A customer subscribing to TWC is able to add a third party to a stable call regardless of which party originated the call. The subscribing customer flashes his switch-hook, receives recall dial tone, dials the third party, and flashes the switch-hook again. The third party may be added to the call while the station is receiving ringing or the subscribing customer may speak with the third party inprivate prior to adding the third party to the stable call.

The third party will be disconnected from the call if the party initiating the TWC flashes the switchhook.

If the party initiating the TWC disconnects, all parties are disconnected.

If a party other than the party initiating the TWC disconnects, the remaining two parties may continue the call.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	1A ESS	5ESS	DMS-100
Earliest Generic Release	1AE8	5E2	BCS17

2. Recursive use of TWC is limited only by resources of the switching system and transmission capabilities (A adds on B, B adds on C, C adds on D, etc.)
3. Dialing restrictions of a station continue in effect when dialing a party to be added on.
4. Speed Calling can be used when adding a party.
5. The initiator of TWC should not receive a Call Waiting tone. Other parties on the call can receive and respond to a Call Waiting tone.

6. Either or both legs of a three way call may be an interexchange or international call.
7. TWC is not available on lines with two or more parties.
8. References:
 - GR-577 LSSGR: Three-Way Calling, FSD 01-02-1301 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000577 Issue 1 & Revision 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Traffic Data Reports (4016,5012,8016)

This capability will provide ESPs with periodic (e.g., weekly) printed summaries of traffic data on their network facilities that are associated with central office switches. Traffic data reports include traffic information such as number of call attempts (peg count), number of blocked calls(overflow), and usage by ESP trunk group (minutes of use). The standard methods for delivering this information are paper printouts or magnetic tape in a standard format.

Generic Name of ONA Service	Product Name	BSE or CNS
Traffic Data Reports	BS - Access To Traffic Data/Network Usage Information Service	BSE
	NX - Business Traffic Study Service	BSE
	Qwest - Traffic Data Report Service	BSE

References:

- TR-NWT-000335 Voice Grade Special Access Service - Transmission Parameter Limits and Interface Combinations, Issue 3, May 1993
- Also see Recommendation X.25 of the ITU-TS [formerly CCITT] Red Book.

This service, if offered as a BSE, may be associated with the Circuit Switched Line or Trunk basic serving arrangements.

Transmission Improvement for Circuit Switched Services (8012)

This capability provides the ESP with a high quality transmission line for use on local switched service. It provides transmission performance between 0 and 4 dB at 1000 Hz between the network interface at the subscriber's location and the serving central office switch.

Generic Name of ONA Service	Product Name	BSE or CNS
Transmission Improvement for Circuit Switched Services	Qwest - Improved Transmission Performance	BSE

References: GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, July 1994 (replaces TR-NWT-000334, Issue 3).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Wireless Extension (8060)

Wireless Extension is an ONA service which enables the integration of Wireline and wireless service. It enables the subscriber to arrange to have calls routed from their wireless handset to their Wireline phone or forward directly into their voice mail box. Wireless Extension is a forwarding feature, operating on the circuit-switched voice platform, which uses AIN (Advanced Intelligent Network) capability for call processing and control.

Wireless Extension is available in selected 5ESS and DMS-100 central offices equipped with AIN, where technically available.

Generic Name of ONA Service	Product Name	BSE or CNS
Wireless Extension	Qwest – Wireless Extension	CNS

References: not available.

3. Appendix 1 - Region Specific Services - Technical Descriptions for Packet Switched Access Arrangements

Abbreviated Call - Packet (8036)

This capability allows the customer to access predefined addresses by utilizing a predesignated unique alphanumeric character(s) in lieu of the normal call initiation process. The port is not limited to sole access of the predefined address when normal call initiation procedures are followed.

Generic Name of ONA Service	Product Name	BSE or CNS
Abbreviated Call - Packet	Qwest - Abbreviated Call - Packet	CNS

Default Window Size - Packet (5022,8007)

This permits the customer to select a nonstandard default window size of three in one or both directions of transmission. If nonstandard default window sizes are not selected, the default window size of two will apply to both directions of transmission. Default window sizes are set at subscription time.

Generic Name of ONA Service	Product Name	BSE or CNS
Default Window Size - Packet	NX - Default Window Size	BSE or CNS
	Qwest - Nonstandard Window Size - Packet	BSE

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service is associated with the Packet Switched X.25 and X.75 basic serving arrangements.

Flow Control Parameter Negotiation - Packet (8003)

Flow control allows the data receiver to limit the rate at which it accepts data by controlling the window size and maximum packet size for each direction of transmission. Negotiation is done on a per call basis during the call setup.

Generic Name of ONA Service	Product Name	BSE or CNS
Flow Control Parameter Negotiation - Packet	Qwest - Flow Control Parameters (Packet)	BSE

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service, if offered as a BSE, is associated with the Packet Switched X.25 and X.75 basic serving arrangements.

Incoming Calls Barred - Packet (5024,8001)

Incoming Calls Barred allows the customer the option to prevent incoming virtual circuit calls from being sent to their data terminal equipment (DTE). When used in conjunction with a Closed User Group (CUG) this feature prevents individual members of the CUG from receiving calls from outside of the CUG. This option will allow call origination only.

Generic Name of ONA Service	Product Name	BSE or CNS
Incoming Calls Barred - Packet	NX - Incoming Calls Barred	BSE or CNS
	Qwest - CUG Incoming Access Barred (Packet)	BSE

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service, if offered as a BSE, is associated with the Packet Switched X.25 and X.75 basic serving arrangements.